

BellSouth Suite 900 1133-21st Street, N.W. Washington, D.C. 20036-3351

whit.jordan@bellsouth.com

W. W. (Whit) Jordan
Vice President-Federal Regulatory

202 463-4114 Fax 202 463-4198

September 29, 2000

Ms. Magalie R. Salas Secretary Federal Communications Commission The Portals 445 12<sup>th</sup> Street, SW Washington, DC 20554 **BOCKET FILE COPY ORIGINAL** 

SEP 29 2000

Re:

CC Docket No. 88-2, Phase I - Filing and Review of Open

Network Architecture Plans

Dear Ms. Salas:

BellSouth Telecommunications, Inc., ("BellSouth") hereby submits its September 2000, semi-annual reports on state and federal tariffing of ONA services in accordance with the Commission's Memorandum Opinion and Order in Filing and Review of Open Network Architecture Plans, CC Docket No. 88-2, Phase I, released on December 19, 1991. As directed by the Commission, the attached report includes the following:

## (1) Consolidated nationwide matrix of BOC ONA services and state and federal ONA tariffs.

This matrix is provided as Attachment P1 and shows the status of ONA services as of July 1, 2000. The names of the ONA services as titled in particular state and federal tariffs, and the associated tariff references, are included in Attachments P3 and D3.

(2) Computer diskettes and print outs of data regarding state and federal tariffs.

This information is included within the ONA Services User Guide, which is being submitted in response to item (3).

(3) Printed copy and computer diskette of the ONA Services User Guide.

The ONA Services User Guide is provided as follows:

No. of Copies rec'd +

Services Descriptions Section - A paper version is provided as Attachment P2. BellSouth has modified the P2 Attachment to add two service descriptions. These descriptions are provided on pages 103 and 104 of Appendix 1.

Wire Center Deployment Section - A single diskette version is provided as Attachment D2. No paper version is being provided due to the large size of the report.

Tariff Reference Guide Section - A single diskette version is provided as Attachment D3. A paper version of the report, which was produced by running menu option #5, is provided as Attachment P3. Both the diskette version and the paper report reflect tariff approvals through July 1, 2000.

(4) Updated information contained in Appendix A of the January 31, 1991 <u>Cross Reference Guide</u> on ESP requests received and how they were addressed by the BOCs with details and matrices.

An updated version of Appendix A is contained in Attachment P4.

(5) Updated information contained in Appendix B of the January 31, 1991 <u>Cross Reference Guide</u> on BOC responses to the requests and matrix.

An updated version of Appendix B is contained in Attachment P4.

(6) Updated information contained in Appendix C of the January 31, 1991 <u>Cross</u> <u>Reference Guide</u> on services offered by the BOC in response to the requests.

The information previously contained in Appendix C is now contained in Appendix 1 of the Services Descriptions Section of the <u>ONA Services User Guide</u>. The Services Descriptions Section is provided in response to item (3) and contained in this submission as Attachments P2 and D1.

If you have any questions concerning this submission, please contact me on (202) 463-4114.

Sincerely,

W. W. Jordan

Vice President - Federal Regulatory

Attachments

cc: Ann H. Stevens

International Transcription Service

#### INDEX OF BELLSOUTH ATTACHMENTS

### Paper Attachments

- P1 Nationwide Tariff Matrix
- P2 Services Descriptions
- P3 Tariff Reference Guide, Menu Choice 5
- P4 Appendix A & B

## **Diskette Attachments**

- D1 Services Descriptions
- D2 Wire Center Deployment
- D3 Tariff Reference Guide

## PAPER ATTACHMENT ONE (P1)

Service Name (Generic)	Т		Am	erite	ch	_		8	ell A	tlant	ic		т-			Be	ISo:	uth			Т		N	YNE	Ŕ	-	Pac	cific	-	£	WBT		Т						u s	WES	Ť			_		$\neg$
(some Region Specific)	Pg					A/I	EIF					IVAN/	ÁΙ	IC:	GA				NAT	¢∩]†	NI AZ	C 114				ΙVŤ			ΔD		MO (	K IT	Δ.	ICO	lin	ĪΙĀ	IĀĀĀ	-				OBI	SD Ti	IT IV	VA IV	⇜
		-	2	2	Univ	AA1 L	/E   L	N IN	אוט	N P	1 1 1 1	WV	AL.	PL.	GA.	71	∽	MIO	NC.	30   I	IN IN	EN	IA II	TI IN	T I'TI	<u> </u>	UA.	NAA	ΛΓ.	1/2	NO N	<u> </u>	~	.   🗸	10	11/	IVII	INI	INE		IND	<u> </u>	301	<del>~+</del> *	<u> </u>	-
555 Access Service	R17		$\sqcup$	$\perp$		_	_		_			<del> </del>	_	<u> </u>							_	_	-		_	╀		Ш		ш	$\rightarrow$	-	4	<u> </u>	₩	-	-	-	₩	Α	<b>Ļ</b> _	Α.	_	-	$\dashv$	_
ADSL Service	R103	ш					_													B   B			_			┸	_	ш					_	4	1	1	_	↓	ــــ	L	L_	Ш	-	<b>-</b>	$\dashv$	_
AIN Alternate Routing	R18					_	_						D	D	D	D	D		D	D	D					┸		Ш					┸		1	1	1	1	L.		<u>L</u>	Ш	$\rightarrow$	_	_	_
AIN Single Number Access	R19							丄	ㅗ				L					В			_																ــــــــــــــــــــــــــــــــــــــ	┸	1_		L_	Ш	_	_	_	4
AIN Term Data Co/Cus Rt	R20											1_	C	C	С	c	С	С		С	С		_			_		ш	<u> </u>						1	1_	<u> </u>	1_	1	_	_		$\rightarrow$		_	_
ATM Cell Relay Service	R6												L	L	<u> </u>				I		_1_	1.					1					_	A٨	AA A	AA	AA	AA	AA	AA	AA	AA.	AA	<u> </u>	<u> </u>	NA A	Δ
Acc To Clr Ch Transmissn	157	88	BB	BB	BB	вв Е	3 E	3 B	B  8	В	ВВ	В										ВВ	BB	BB	3   BB	BB	BB	BB	BB	BB	ВВ	3B   B	BB	BB	BB	88	BB	BB	BB	BB	BB	BB	88	3B [8	3B   E	;B
Access To OSS Info	158			$\Box$			Т		T	Т	T	T	BD	BD	BD	BD	BD	BD	BD	BD B	D															1	1	I			I		$\Box$	$\perp$	$\perp$	
Access to Cust Prem Anno	R80			ΠП			Т	Т	Т		Т	1	Г	Г	Г					Т	Т		В	E	3 🗆	Т	T			П		- T	Т	Т	Т		1		Т		Γ			$\perp$		
Access to Ordr Entry Sys	R81			$\Box$			$\neg$		$\neg \vdash$	$\neg \vdash$	$\top$	1	BD	BD	BD	BD	BD	BD	BD	BD B	D	T	$\neg$	$\neg$	$\top$	Т				Г		T	_	T-	Т	7	Т	┰	T					Т		$\Box$
Alternate Routing	44	AA	AA	AA	AA	AA E	3B   E	3 B	e le	вВ	B 188	BB										вв	8 8	8 8	3 BB	ВВ	AA	AA	BB	ВВ	ВВ	3B   B	BE	BB	ВВ	BB	BB	ВВ	BB	BB	BB	BB	BB /	3B F	3B E	ιB
Answer Supv'n Line Side	46				вв					B										BB E		+	$\neg$		7	+==	BB		_			7										ВВ			3B B	
Asyn Tran Mode (ATM) Svc	R5		-	-			+	+	-+-	+	+	╁═╴	ĀĀ	IĀĀ	AA	AA	AA	AA	ĀĀ	AA A	Ā	+	+	_	+	1	1	Н		<del> </del>	-	_	+==	+==	1	+	+	╅	1	-	1		$\neg$	$\neg$	$\neg$	$\neg$
Auto Disaster Rec. DID	R21			$\vdash \dashv$	_	_	$\dashv$	_	+	_	┪	┪	1	<del>  •</del>	<del>  • • •</del>	۳		-	<del>''''</del>		-	$\dashv$	+	10	5	+	1-		-		$\vdash$	$\neg$	1	+	1	+	+-	1-	†	<del> </del>	1	1	$\neg$	_	_	$\neg$
Automatic Callback	48	ਰ	c	┝╼╂	c	ct	ct	ch	⋷ऻ	cta	<del>o l c</del>	tc	c	c	c	ᇹ	-	С	c	cl	c	c t	ᆎ	टिं		ि	c	t	С	c	c	ct	5 7	ांट	<del>1 c</del>	l c	tc	tc	l c	c	tc	c	c	ċ	cl	ਰ
Automatic Protect Swtchg	159			BR	BB I						BB														B		BB	<del>ا</del> ٽا		BB		3B B						BB					_		B E	_
Automatic Recall	50	Ĉ	C	۲		c					o lo			C					c					cľ		Tc		c	Ĉ	155		c			Tc			Ϊ́с		Ĉ		ट				त
Bridging	161			ᇹ																											ВВ												BB E			副
Bridging - Line	R23	20	20	100	56	90	20   5	90 10	4	10	5   66	100	100	100	100	100	50	20	ᄤ	2010					BB			100	00	100	DD	90 10	9 154	, 100	100	100	100	100	100	100	100	1	<del>55 }</del>	~	~	끡
C1 TypA - Ckt Sw Line	8		<u> </u>	<del>                                     </del>			<del>  </del> .	<del>   .</del>	<del>.  </del> .	<del>.  </del> .		+	1.4	1	1	اجما	44	44	**									100	~~	44	AA	<del>   .</del>	-	1	AA	-	1	1	1	A A	1		**	<del>~ 1</del> /	W A	↲
C1 TypB - Ckt Sw Trunk	10																														AA I														<del>~</del> /	
C2 TypA - X.25 Pkt Sw	13				<u> </u>						<u> </u>																								A		144	AA	<del> ^^</del>	1	1	<u>~~</u>	**	A /		
C2 TypB - X.75 Pkt Sw	16				AA						<u> </u>														4 44				AA		AA .			A	- <del> </del> ^-	A	IA.	A	12	<u> </u>	<u> </u>	<del> ``</del>	<del>^</del> +	<del>: +</del> 7	<del>:  </del>	$\vdash$
C3 TypA - Ded Metallic		^^	⋍	^^_	8		-				A AA		₩.	<u> </u>	IAA.	<u> </u>	^^	^^	^^	^^ /^									AA		AA			<del>.  ^.</del>	1 <u>^</u>	14	₽.	14.	14.	1A.	1	<b> </b> ^_	<del>^ '</del>	<del>``</del>	` 1'	à
	19 21		_	$\vdash$	-						<u> </u>		₽	╄	₩-	-		_		-										AA.	AA .	**		\ <u>^^</u>		1.4	-		<b>!</b>	_	A	_	A /		A	
C3 TypB - Ded Telegraph											A AA		١.,	١.,	ļ.,										A AA					١		.	. !^				AA		1		_	AA.	AA /		X /	
C3 TypC - Ded Voice Grd	23																														AA			N AA				AA								
C3 TypD - Ded Prgm Audio	25										A   AA											<u>^  ^</u>									AA .			\ AA	144	_	_	AA	1 <del>V</del> V	_		AA	AA /	<u>~</u>	<u> </u>	$\sim$
C3 TypE - Ded Video	27				AA				_	ÀΝ	_		ĀΑ		AA							- 12	^			A					AA .			<del></del>	IA.		AA		1		<u> </u>	<u> </u>	<del>?. ľ</del>	$\frac{1}{2}$	<del>`  </del>	<del>`-</del> -I
C3 TypF · Ded < 64kbps	29				<b>A</b>						<u> </u>																				A							AA							<u> </u>	
C3 TypG - Ded 1.544Mbps	31								****		A AA	ĮAA								AA A						1 AA	AA.	IAA	^^	IAA.	AA .												<u>~~ </u> ′		<u> </u>	
C3 TypH - Ded >1.544Mbps	33	桱	^^	^^	AA	<u> </u>	_			_	_	Α.	<u>^^</u>	_	<u> </u>	ΛΑ.	^^	88	<u> </u>	<u> </u>	_	_	ΑΑ		A A		AA			<u>   A</u>	<u> </u>	A A	_₽^	N AA	<u> </u>	188	AA	<u>   AA</u>	1	AA	<u> </u>	^^	Δ-μ′	`	<b>N</b> A	<u> </u>
C3 Typl - Ded Airt Trnsp	35	ш		Щ	ightharpoonup	_	Δ		<u> </u>		<u> </u>	<del></del>	1_	ļΑ					_	_	_		ΔL	_	A AA	_	_	Α		1_			1		↓		<u> </u>		1_		Ļ.,	1	<del>,  </del>	_	_	_
C3 TypJ - Ded Derived Ch	37			$\Box$			_			$\perp$		1_								AA A					A AA			Ш	AA.	AA	AA .	<u> </u>													<b>M</b> A	
C3 TypK - Ded 64 kbps	39				ÃΑ		A /				A AA											ВВ	ВВ	B BI	B   98	BB		Ш	_	_	ш			AA A	AA	_	_	_					<u> </u>		VA /	
C4 - Ded Ntwk Accss Link	41			AA			M /	M A	A A	M A	A AA	AA								AA A		_L									AA .				Α	<u> </u>	Α	Α	Α		AA		/	A A		
CF Mult Sim Call Intersw	69		С			С							С			С									Ç	C			С	C	c	С				С				С	C		С			С
CF Var Act w/o Crtsy Cal	72		С			C							С		C				С		C		С				C							) C			) C				L_	C	$\boldsymbol{\sqcup}$		С	
CF Var Remote Act/Cntrol	73	С	C								CC	C	C	C				C	C		С		С			1	C		C					) C	С	С	C	С	C			C				С
CF Variable	70	С	С				С	С	С	C	c c	С	C	С	С	С	C	o	С	С	С			CC		C	C		С	С	С	С	C	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	20 (	CC C	<u> </u>
CF With Variable Rings	75		C			С			$\Box$				Ι	L									C							L										<u> </u>	<u> </u>		Щ	_		
CFBL Interswitch	57		С			С	С	С	C	C	CC	С	C				С	С	С	С	С			C				C						िट	C	С	C	С	C				C	_		C
CFBL Intraswitch	55		ပ			С	C	С	c T	C	C C	С				С	C	C	С	С	С			CC	o Lo	C	C	С	С	C	С	С				С	С	С	С							С
CFBL/DA Cust Act/Deact	59		ပ			С		Т		$\Box$	$\perp$		C	С	С	С	С	С	С	C	С		c	$\perp$	2		С					$\Box$	$\mathbf{T}^{q}$	) C	С	С	С	С	C	C	C					C
CFBL/DA Cust Chg Fwd No.	61		C	П	С	С	$\neg$	1	T	$\top$	$\top$	T	T	1							T					T	C		Г	П	П		1	ः   ट	С	С	С	С	С	С	C	С	С	С	C	C
CFDA After CW	63		C	Г		С	c	c	ct	C	c c	С	C	C	C	С	o	c	Ċ	С	С	c	С	CC	C C	C				1			1	ः ।	C	C	C	c	C	С	C	С	С	C	С	С
CFDA Interswitch	67		c		ट	c	c	c	c t	c i	c c		C	C		C		C	С					clo		ि		С	С	С		С	ा	;	C	Ċ	Tc	Tc	C	C	ट	С	ट	C	C	С
CFDA Intraswitch	65	С	C			c			ĊŤ		c c							C	Ċ					c c		ा ट							<b>5</b> 7								C	С	ा	C	़	С
CFDA To DID Intraswitch	R28		_	$\vdash$		-	_	$\neg$	1	+	<u> </u>	Ť			Č			č	č		č	1	$\neg$	7	7-	Ť	1	Ť	T	1		_			Č							-			c	С
	T			$\vdash$	$\vdash$	_	_	_	$\dashv$	$\neg$	$\dashv$	T	Ť	Ť	Ť	Ť	Ť	Ť	$\dashv$	<del>-  </del>	1	$\dashv$	$\top$	$\top$	_	1-	1	1	1	<del>                                     </del>		一十	+	Ť	Ť	Ť	Ť	Ť	Ť	Ť	1	П	$\neg$	$\top$	$\neg$	$\neg$
9/30/2000 Update [Page 1]				Н	┰	-+	$\dashv$	-	-+			+	+-	+	<del> </del>	┪	$\vdash$	$\vdash$	-	$\dashv$	+	$\dashv$	$\dashv$	$\dashv$	+	+	1	1	1	1-	<del>                                     </del>	$\neg$	+	+	+	+	+	+-	† :	1	+-	T	$\overline{}$	$\dashv$	$\dashv$	$\neg$
	<u> </u>			لــــا										Ь	ــــــــــــــــــــــــــــــــــــــ		L			E-							<u>i                                      </u>	_	_	٠	1					Щ.	_			<u> </u>		اـــــــــــــــــــــــــــــــــــــ	—	—	—	

#### COMBINED TARIFF REFERENCE MATRIX

General Principal Princi	Service Name (Generic)		_	Am	erite	ch	Т	_		Bell .	Atlan	ilc		т-	_		В	HISO	uth			7			NYN	ĒΧ		ĪΡε	cific	_	-	WBT		Т							JŚΝ	NES	Ť					_
Call Deline Linchwithout   Parket   P		Pa	ii i	N I	MI	OHU	A/I I	il ac					Iwv.	Δì	TFI	IGA	IKY	IΑ	MS	NC	SCI	TN	MF I	MA	NH	NV	RI IVI	CA	INV	ĀŘ	IKS	MO I	κ Iτ	χ	Z IC	:O li	Ď	IA II	MN I	МΤ	NE	NM	IND	OR	SDI	JT IV	VA I	NΥ
Call Defended Processors  A			-	-	VII.	011		76 1	20	<u> </u>	*3	- 117	1	1	+	100	-	150	IVIO	110	99		-	1017		<del>``</del>	" '			***	1.0	10.0	<del></del>	~ *	-	~	_	***	****	-		4141	-		-			₩.
Call Defended Partie Part   44			<del> </del>	-	Ш	$\vdash$	-	-	$\dashv$	-+	·	+	╫	-	+	+	+	<del>-</del>	├		┝╌┼	-				$\rightarrow$		- 00	<del>'</del>	╂	<del> </del>	╌┼	-+-	-	+	<del>.  </del>			╗┤		-	-				ᆎ	<del>-  </del>	-
Gal Detail Recording Record (a) St. C.			-	$\vdash$	Н			<del>.  </del> ,	<del>.  </del> .	<del></del>	<del> .</del>	0 00	100	-	╀	+	┿	╀┈			╌┼	-	80	85	BO	<del></del>	on ar	+	+	00	00	66	<del>  </del> -	-	-+	ᠲ			의		宀	-	-		-+	쒸	러	$\dashv$
California Configuration   Page   Pa			-	-	ш	$\vdash$		<u>.                                    </u>	4	38	38   8	RIBE	IBB	+-	╀╤	╁	+-	╁╤	+-	<del>  _</del>	<del> </del>								┿	ВВ	IDD.				<del>,,  </del>	<del>  </del> .	-	00		55	55	-	100	80	BB	<del> -</del> -	<del>,,</del>	<del></del>
Call Patricistic Acceptance  Applies 26 B 80 B 8			-		$\Box$	_	_	_	-			-	-	R	18	B	18	Τ₽	₽.	P	비비	ь	יי	Ӵ	ט	ᆈ	니니	4	+	<b>!</b>	┿	<b>₽</b>	-+-	-	3B   E	3B	DB.	BB	88	BD	ВB	BB	BB	DD	DD I	10 10	**	쁴
Call Perfection Present   145   88   88   88   88   88   88   88					$\Box$	$\Box$	_	_	_			4	┸	_	↓_	4_	1	↓_	ļ	Щ	$\sqcup$	-4			_	_		4	_	↓_	ــــ	-	-	-	—	4		$\perp$	_				ļ	-	-	_	-	_
Cast Maning   Pisto   Cast								_1		_				_	ــــــــــــــــــــــــــــــــــــــ	┸	┺	<u> </u>	L		$\sqcup$				$\Box$	_		┩_		_	1_	$\sqcup$	_	_	_	_					Щ		ـــــ		_	<del>-</del>	_	
Gall Walling Cannel   Fig.   C   C   C   C   C   C   C   C   C			BB	BB	BB	BB	88 E													BD	BD	BD	BD	BD	BD	BD [	BD BC	BB	Ш_	BB	BB	BB	3B   B										В					
Califing Name Delivery (S)44 Califing Name De	Call Transfer On DID	R29						В	В	В	В	B   8	В			В	В	В													<u> </u>			┸	В	В	В	В	В	В	В	В	<u> </u>	В	В	В	В	В
Called Name Dalway  R34  Called Name Dalway  R	Call Waiting	R30	С	C		С	С	C	C	C	ट	CCC	C	C	Tc	C	TC	C	ि	С	C	С	O	С	C	C	CC	: 0	С							$\Box$									$\Box$	$\Box$ L		
Calling Name 10	Call Waiting Cancel	76	С	С		С	Ĉ	टा	CI	टा	ट	CC	ि	С	C	С	С	С	С	C	टा	C	O	С	С	CI	CC	Ċ	: [	C	TC	С	C	C	C	CT	O	С	C	ဂ	C	c	С	C	ा	C	C	С
CIAL D'Nellevi via SOCHAXX.    1	Calling Name Delivery	F134	1				_	_			$\neg \uparrow$	_		1	1	1	1	1	T		ΙТ					$\neg$		1	1	1	П		$\neg T$	1	T			П	В		В				$\Box$	$\neg$	$\neg$	$\neg$
CIAL DE Nellevi Na SOCHAXX.    1	Calling Name ID	R35				П	_	_	$\neg$	_	_	$\neg$	1	1	1	1	1	T	T									1	1		$\top$		$\neg$	_	c	टो	С	Ċ	C	C	С	c	Ĉ	С	C	cl	C	C
CIGLO Note via DID  78 CIGLOS A DEBIN CONTROL AND TRANSCORD  78 CIGLOS A DEBIN			BŘ	BB	BB	RR	RR	R I	A I	a l	RR R	B B	B	1	+	†	1	t			$\vdash$		BB	BR	В	BB I	BB B	┪┈	+	AA	AA	laa l	A TA		_	7	$\overline{}$		_				$\vdash$		$\neg$	_		$\neg$
CIGNCING Number Info-AMI    83			-		۳	-	-	<u> </u>	BB I	in I	88 8	A RE	BR	BB	Tee	RR	BB	BB	RR	BB	BR	BR.	BD.	BO	Ř	RD I	BD B	TER	IRR	R	FR	B	R	a I	R	<u> </u>	BR	В	R	R	R	R	R	BB	B	AF	1B	R
City Big Num Delity FG B				$\vdash$	$\vdash$	┝╾┥	<del>-  </del> '	<del>  </del> '	<del> +</del> '	<del></del> -	10	75	155				旹	F	٣	٣		핅				<del>  </del>	<del>      </del>	+	1	1-	t	<del>  -  </del>	十	~	<del>-</del> +	-1	==-	∺	Ť	۳H	H	Ť	╅	T		7	<del>-</del> +	Ť
Cicle Bills Num Deliv FG D  94				$\vdash$	⊢⊢	$\vdash \vdash \vdash$	<del>-</del>  .	<del>  </del> .	<del>.  </del> .	<del>.  </del>	90 0	<u>a les</u>	lee							99			99	88	RR	an 1	88 PE	100	.+-	1-	+	$\vdash$	-+-	٦,	an	<del>  </del> .	88	BB I	<del></del>	<u></u>	BB	BB	lap.	BB.	BB	AR F	a t	一
Ciglo Delawing SCLID 177  Ciglo No Deliving Clid 20 To See 1			00	60	100	100 1								器	<del>시용</del>	100	100	먊	100	100	8	<del>                                      </del>	20	00	20	<del>55</del>	20 00	100	l DE	90	100	100	<del>  </del> .															
Cikg DN Delivor in CLID    ST			Pop	DD	BB	88	DD E	ין פפ	뭐	30	00	<u> </u>	100	100	냶	100	100	먊	IDD	100	100	00 00	90	20	ᄝ	ᅃ	00 100	100	100	PD	lob.	00	<del>20</del>   10	-4														
Closed User Groups Pixt   146   80   80   80   80   80   80   80   8			<b>I</b>	$\vdash$	ш	닏	ᆛ	ᆉ	ᆉ	ᆛ	ᆉ	╌┼╌	+-										<u> </u>	닏	اڃ⊦	ᅱ	<del>,   ,</del>	+	55	1~	1~	<del>├</del> ू┤	<del>,</del> †															
Con-put-Assid Dilling				اجوا	احجا																																									绁		
Comput Assist Cell Xier			BD	BD	BD	BD																							4_														_	-		<b>بل</b> و		
Compour Assist Disling					Ш	$\Box$		C	८।	<u> </u>	<u>c</u>	<u>c l c</u>	<u>  c</u>	Α	1.^	<u> </u>	14	LA	14	▙		Δ	С	으	င	듸	CIC	4		l c	1 c	C	ᄗ	C	<u> </u>	<u> </u>	<u> </u>	Δ	A	Δ	Α	Α	I A	LA	_4	ᄉ	4	4
Conditioning   163   88   88   88   88   88   88   88																			<u> </u>		Ш								┸			$\perp$						$ldsymbol{\sqcup}$			Ш		L			_	_	
Coord Volce and Data	Compute Assist Dialing	R97	₿В	BB	BB	BB	88	$_{\rm I}$					$\Gamma$		1			$I_{-}$												İ		Ш														$\perp$ L		
Cust Offshelded Trace 92 C C C C C C C C C C C C C C C C C C	Conditioning	163	88	BB	BB	BB	BB E	BB I	BB (	BB	BB B	B BE	BB	BD	BD	BD	BD	BD	BD	BD	BD	BD	BB	BB	BB	BB	BB BE	BB	B8	BB	BB	BB	38 B	B	3B [6	3B	88	ВВ	ВВ	BB	BB	88	BB.	88	BB I	3B   E	3B [	3B
Cust Offshelded Trace 92 C C C C C C C C C C C C C C C C C C	Coord Voice and Data	R96	88	88	ВВ	BB	BB	ヿ	一门	ヿ	$\neg$	$\neg \neg$		1	1	1	1	T	П			_					$\neg$	Т			T			7		ヿ		П					Г			$\top$	$\neg$	$\neg$
Custom Service Areas   137	Cust Originated Trace	92						cl	cl	cl	С	clo	C	C	1 c	Ċ	Τċ	Τċ	c	С	c	C	C	С	c	cl	clo	: C	tc	C	C	c	cl	C	cl	cl	С	c	c	C	C	c	c	C	c	cl	ट	ट
Cut Off Or Disconnect:  94			Ť	Ť	Н	H	_	<del>*  </del>	~+	Ť	<del>-</del> +	<del>*                                     </del>	+-							Ť			_	Ť	H	-1	_		Ť	1	Ť	1	-	Ť	-	-		1	-	Ť	_	Ť	┝╌			+	$\neg$	$\neg$
Car Select On Rvrs Charg  93			<del> </del>			-	-		<u> </u>	<u> </u>	<u> </u>	<u> </u>	Α .							ΔΔ			ΔΔ	ΔΔ	ΔĀ	ΔΔ	AA A	1	+	1	†	1 1	-+	-	+	-+	_	$\vdash$	$\dashv$	-	Н		${}^{+}$	$\vdash$		-	$\neg$	$\neg$
Dig			A A	44	144	44																							HAA	+	+	1 1	-+	-+	<del>.  </del>	<del>,  </del>	Α_	┪	$\overline{}$		$\vdash$	┰	_	_		<b>★</b>	<u>_</u>	$\overline{}$
DID Trunk Queuing 95			<u>~</u>	~	122	<u>~~1</u>	~	<u> </u>	9-11	90	DB   C	D IDI	100	<u>~~</u>	1~	<u> 1~</u>	1~	┯	┯	ጮ	<del> ^</del>	$\sim$	00	ВВ	50		00 100	~	$+\sim$	4	+-	-	-+	-	<del>^</del> +	<del>^</del>	<u>~</u>	⊢∼	^	ᅮ	1	-	₽	<del>-^-</del>	┌╌┼	4	<del>^</del> +	
Dinal Altern Service					$\vdash$	$\vdash$	-4			_	<del>.  </del> -		+-	╂	<del> </del> -	+	+	┼-	┼	⊢	<del></del>			$\vdash$	-	Ӵ		-	.+-	-	┼	╌			<del></del>	<del> </del>	-	00 1	5		-	-	<del> </del>	00	<del></del>	<del>55   E</del>	20	55
DNAL Amtoh Recordig Sves   41								В	R 1	8	R F	R	lR.	┺	4	┩	4-	↓	<b>↓</b>	┞—	₩	_		$\vdash$		-		BE	<u>'</u>	<b>.</b>	-	$\vdash$			ar IF	ar I	BB	BB I	BB	BB	BB	ממ	BB	88	BB	30 10	100	,6
DNAL Amlch Sw-Cmputr Apl 41								_	_	_		ᆚ	4_	1	1_	٠.	4	٠.	<del> </del>	<u> </u>	$\sqcup$	_			_	_	—↓	_	┺.	1_	١	$\longrightarrow$	_+	4	-	-		ш			_		┡	-	$\mapsto$	-		
DNAL SMOI 41 AA													1						L			_								┸	1_							$\sqcup$					ㄴ		$\sqcup$	_	_	_
DNAL SMDI-E 41	DNAL Amtch Sw-Cmputr Apl	41	AA	AA	>	AA	ÄÄ			I		1.		I				Ι_								1			_L_	L.	_		L										L.			L		
DNAL SMDI-E 41 AA	DNAL Ckt Sw Fac Cntrl	41	AA	AA	AA	AA	AA	П			Т	Т	Т	Т	Т	Т	T	Т	Т									Т		Т		1 " 1	$\neg$		$\neg$			П					Π		П	T		
DNAL SMDI-E 41 AA	DNAL SMDI	41	AA	AA	AA	AA	ĀΑ	_			$\neg$	_	1	Т	1	<b>T</b>	1	1	1			_				$\neg$		T	1	1	Т			7									T		$\Box$	$\neg$		$\neg$
DNAL STP Access 41 AA	DNAL SMDI-E		ĀĀ	AA	ĪĀĀ	IAA I	<del>M</del>		_		-+	+	1	t	1	1	1	1	1	$t^-$	$\vdash$	7				_	_	T	$\top$	1		$\Box$	_	7	$\dashv$	寸		$\Box$	$\neg$			· · · ·	T	$\Box$	$\Box$	$\top$	$\neg$	$\neg$
DS0-B Subrate Multiplixr R82			AA	AA	IAA	laa l	AÀ		-+	-1	十	+	+	+-	+	+-	+-	+-	1	t	$\vdash$	1		$\vdash$	$\vdash$	$\rightarrow$	$\dashv$	1	+-	+-	T	1	-	7	7	_		<del>                                     </del>		М			т		$\Box$	7	$\neg$	一
Data Over Voice (DOV)   164			<b>†</b>		۳	<del>  ``</del>	<del>'''</del>	<del>-  </del>	-	1	$\dashv$	+	+-	Tan	Ter	l Br	BD	lan	BD	80	lan l	RD	$\vdash$	Н	$\vdash$	_		+	+-	+	1	11	-+	7	_			┪	-		$\vdash$	$\vdash$	<del>†                                     </del>	1	$\vdash$	$\dashv$	$\dashv$	一1
Default Window Size-Pkt   R70				-	$\vdash$	$\vdash$			-	1	-+	+	+	_									ΔĀ	44		امم	AA   A	1	:	1	10	ᇅ	<del>c</del> t	٦t	ΔΑ /	A 1	ΔΔ	<u>  44  </u>	<u> </u>	AA	AA	ĀĀ	TA A	ĀĀ	AA I	<u> </u>	<del>  </del>	<u> </u>
Defiault Window Size-Pkt R70			-			<del>  </del>				-	$\dashv$	+	+	┰	+~	+~	+-	+∼	┯	۲	<del> </del> ≚	×		₽~	$\sim$	~	~+~	+	+-	+~	┰	<del>  ~  </del>	┵┼															$\vdash$
Derived Ch (Monitoring) 166 CC C				_	├		-	-			-		+-	+-	+	+	+-	+-	₩	⊢	┝╌┤		<u></u>			믉	BD   5.	╅	╫	+	+		-+	_													_	+
Dialed Num Ind/NuMTS-DID   R40					1	اجما	اچ	_			_	┵	+-	4_	4	+-	4	+-	+	$\vdash$	<del>├</del> ─┤								┵	-	╄	₩	-+			-	0	P	5	₽⊢	8	P	<del> </del>	_	ᄥ			4
Digital Data Svc 2-Wire   R82			CC	CC	ICC	CC	CC	C		С	_	ᄗ	4_	1_	10	Ц_	4_	4_	1_	₩	<b>↓</b>		ΑΑ_	ΔΔ.	Щ	AA	<u> </u>	19	<u>:1c</u>	4_	$\vdash$	$\vdash \vdash$	_	_				<b>Ļ</b> ↓			L	L_	<del>  _</del>		اليا			
Digital Data Svc 2-Wire   R82				<u> </u>		<u> </u>							Щ.	_	┸		ᆚ_	1	1_	<u> </u>	╙		_	ш	ليا			┸	_	┺	↓_	1	_	_1	В	B	В	В	В	В	В	I B	₽B	I B	ㅂ	ᄟ	ㅂ	_
Dir Call Pickup w/Barge								I		I				80	BC	BC	BD	IBD	BD	BD	BD	BD	8B	ВВ	BB	BB	BB BI	<u> </u>		┺.	1_					1		ш		$ldsymbol{ld}}}}}}}}}$	L	<u> </u>	_	lacksquare			_	
Direct Call Pickup w/oBarge   R44	Digital Data Svc 2-Wire									1	$\Box$	$\perp$	L		L						$\Box$								L					_	<u> </u>	<u> </u>		_								<u> </u>	$\perp \perp \prime$	<u> </u>
Direct Call Packet 148 C C C C C C C C C C C C C C C C C C C	Dir Call Pickup w/Barge	R43			T			T	Ţ		П	T			$\Gamma$		Г																		В			В	В			В	В	В				
Direct Call Packet   148   C   C   C   C   C   C   C   C   C	Dir Call Pickup w/oBarge	R44			Т	П		_		$\neg$		1	T	T	1	T	T	T		Г								T	I		<u> </u>		$\neg$	T	В	В	В	В	В	В	В	В	В	В	В	В	В	
Direct Current (MT3) R9 A A A A A A A A A A A A A A A A A A			С	C	1	C	C	<del>c t</del>	c	<del>cc l</del>	cc to	clo	cloc	BC	BE	BE	BD	BD	BD	BD	IBD I	BD	BD	BD	BD	BD	BD BI	o co	1	CC	CC	Icc I	cc la												ic f	ं रि	5 17	5
			Ť	<u>ٽ</u>	+	<del>اٽا</del>	Ť	<del>-  </del>	-		<del>+</del> +	-15	<del>-  </del>	۳	۳	۳	٣	ぜ	+==	1	احتا		<u>ت</u>		<del>                                     </del>			Ť	+	╅┷	1~~	<del>  ~  </del>				_		Ť	-		_	_		_			一:	ᆏ
9/30/2000 Update [Page 2]		<del>  "</del>		-	┼	$\vdash$	-		-	$\dashv$	+		+	1-	╫	+	+	+-	+	+	╂╼╾┥	-	├──	Η	Н	-	-	+	+-	+	+	┼┼	-+	-	<del>^</del>	~+	<u></u>	<del>                                     </del>	-		Ë	├^	+~	<del>  ``</del>	<del>       </del>	∸	$\dashv$	
	9/30/2000 Undate IPage 21	├	-	-	₩	$\vdash$					-	+	┽	┺	╫	+-	+	+-	+-	$\vdash$	┿	-	├	⊢	$\vdash$	-	-+-	+	+	+-	+-	┼┤		-+	-			⊢⊢		$\vdash$	$\vdash$	⊢	+-	<del> </del>	-+	+	-+	$\dashv$
	[arcareon oboate [t age 2]	L		Щ.	<u> </u>	لسل		i	1	1							Щ.	┸	ــــــــــــــــــــــــــــــــــــــ	Ļ	ᆜ		Щ.	L	Ш				Ц	_	ــــــــــــــــــــــــــــــــــــــ	لــــــــــــــــــــــــــــــــــــــ		_1				щ		ш	L	Ь	Щ		щ			

Service Name (Generic)				erite						Atla			I				eliSe				$\Box$			NYNE				cific			WBT		I								WES						
some Region Specific)	Pg	IL.				Iwi	DÉ	DC	MD	NJ I	PAV	A W	V AL	F	. IG/	\ KY	LA	MS	NC	SC I	TN I	ME II	MA	NH IN	IY A	i JVT	ĊA	NV	AR	KS	МО	ōΚΤ	TX	AZ I	CO	ΪD	IΑ	MN	MT	NE	INM	IND	OR	SD	UT	WA	W
Dist Ring Term Screen	99		C		C						C																		С	С	С								С		C				С		
Distinctive Alert	R45	<del>ا</del> ٽ	۳		ř	<del>                                     </del>	ř	<del>۲</del>	۲	<del>-</del>	<del></del>	<del>'</del>  - `	+	4	┷┼┷	4~	۲	╅	<del>  ~</del>	┝┷┼	Ť	Ť	<del>-</del> +	<del>~  </del>	<del>~   .</del>	<del>"   "</del>	+-		<u> </u>	Ť	~	<del>-~</del> +	Ť		В	В								_	_	-	-
Distinctive Ringing	96	1	С		c	1	Ċ	<del>  ~</del>	-		c	<del>.                                     </del>	. 1 2	ᡧ,	<del>.   ,</del>	+->	╁	1	1		cl	+	+	$\dashv$	+	+-	c	1	С	c	c	cl	С		č			c									
Extended Superframe Cond	168			60		BB					<u>~   ~</u>									Ă I		-+		-+	┵		┰				ВВ			쒸	<u> </u>		۲	۳	<del>۱</del> ٽ	<del>+</del> ~	<del>+</del> ≚	+~	╀	<del>اٽ</del> ا	۳	<u> </u>	+`
Fast Select Accept Pkt									<u>~</u>		$\frac{\hat{B}}{B}$		-12	16		1	120	122	瓮	25	<del>~~</del>	<del>, ,  </del>	<del>  </del>	<del>  -</del>	<del> </del>	D BD	100	$\vdash$			BB			<del>.  </del>	В	В	В	В	lB-	В	8	┢	В	В	В	В	Ь
	149		BB	BB			0	lp.	<u> </u>	₽	<u> </u>	16																									_			_	_						_
ast Select Request Pkt	150	10	ပ		이	ဂ	_	<u> </u>	<u> </u>			٠.	R	기발	n Br	) IRF	BU	IRD	RD	RD I	BD I	BD I	an I	BD E	SO B	D BD	88	-	BB	ВВ	BB	BB	_	_				В	_	В	В	B	В		_		B
aster Signaling On DID	101	_					BB		В		В		B	3   B	B   BE	88	88	BB	BB	BB	BB						4	ш				_			AA		AA	_		_	AA		AA	IAA	_	AA	_
lexible ANI	102	BB	BB	BB.	BB	BB	В	В	В	В	в в	В	B	3 <u> </u> B	BB	188	BB	BB	BB	BB	BB	B [	В	B E	<u> </u>	В	<u> </u>	Ш	BB	BB	88	BB	В	В	_			8	_	В	В	В	<u> B</u>	В	_		В
low Contr Param Neg-Pkt	R71						Щ					_1_	l		_1_			⊥	<u> </u>	Ш	_1	_1	_1			_1_	1_	Ш	ш		$\Box$	1	_1								В				_		B
rame Relay Service	R10												A/	A A	A   A/	N AA	AA	AA	AA	AA	AA /	AA /	AA J	AA /	A A	A AA	1						_	AA I	AA	AA_	AA	AA	AA	AA	. AA	AA	AA	AA_	AA.	AA	IA
ligh Cap Dig Handoff Svc	R83							В	В	В	В	3		$\perp$		$\perp$		$\Gamma_{-}$							-L	. [											<u> </u>	L	1	<u></u>		1_			L_	_	1
fot Line	103	П				П		П			Т	Т		ा		: T C	C	C		ा	C	BD I	BD	BD E	D B	D BD	C	С	С	C	С	C	С	टा	C	С	C	C	C	C	C	Τc	C	C	С	C	T
lunt Groups Packet	151	88	BB	вв	BB	BB	В	В	88	BB	BB B	BBI	BI	DΒ	D BI	BC	BD	BD	BD	BD	BD	BD	BD )	BD E	ID B	D BD	BB		BB	BB	BB	ВB	В	В	В	В	В	В	В	В	В	В	В	В	В	В	B
nband Signaling	R84					1	8B	BB	BB	BB	BB B	ВВ	3	Т		$\top$	Т	1	П	П	T		7		$\neg$	$\top$	T	П									T		П		Т	T	Т	$\Box$		$\Box$	Т
ncoming Cls Barred-Pkt	R72	1				1		Τ̈				T	1	1	1	$\top$	1	<del>                                     </del>	Г		E	BD T	BD I	BD E	D B	D BD	1	П		П				в	В	В	В	В	ТВ	В	В	В	В	В	В	В	В
nitial Address Message	R94	ВВ	BB	BB	BB	BB		1				+	$\top$	+	+	+-	<del> </del>	1			1	Ť		- 1	_	1	1			1			_	-1			Ť	m	1	1	1	1	1	$\vdash$	Г	$\Box$	Ť
ogical Chan Layout-Pkt	R74	Ť		-	٣	╅╾		<del>                                     </del>		$\vdash$	_	+	+	┪	$\top$	十	+	1-	1	1	_	$\dashv$		_	$\dashv$	$\top$	1	Н		T-	-	_	_	B 1	8	В	В	В	В	В	В	В	В	1B	В	В	t
ogical Channels-Pkt	R73		<del>                                     </del>	Н	<del>                                     </del>	<del>1 -</del>	┢	<del>                                     </del>	<b>-</b>	Н		+	+	+	+	+	†	+	<del>                                     </del>	$\vdash$		-+		$\neg$	十	$\top$	1-	T	${}$		$\vdash$	-+		_			B				В		崮	崮	_		ΤĒ
LHG Access to Each Port	1111	BB	BB	RR	BB	RP	88	B	BB	BB	BB B	R R	Ter	ΣĒ	D Br	Br	Br	BD	BD	BD I	BO	an ti	BD	BD F	D A	o lan	BR	BB	BB	ВВ	88	BB	в		BB				ВB					_	—		
ILHG CO Announcements	109										88 B																				BB								BB						BB	BB	Ė
LHG Overflow	113	BB	80	뜲	00	188	88	TER.	BB	BB	BB B			n lä	n ai	S IBC	Br	BD	En.	BD 1	BD I	BB (	BB 1	RA I	in in	8 88	BB	1	25	100	-	-												BB	BR	RR	
ILHG UCD Line Hunting	115										BB B																		00	100	00	66												BB			
ILHG UCD With Queuing	117					BB	00	IDD.	DD	DD	<u> </u>	밀						BB								D BC					BB				BB									BB			
		90	ВВ	ВВ	BB	IBB	<b>!</b>	├	-	Н		-	101	<u> </u>	BB	) DE	100	IBB	В	100	DD I	ון עם	BU	פן עם	פן טפ	חם ח	ВВ							88	DD	DD	ВВ	100	100	100	IBB	100	ᄪ	100	PDD	DD.	45
IWI - Packet Access	153	1		$\vdash$	Ļ	╀_	Ļ	<del>-</del> -	L_	L	ᆛ		٠,	╀	<del>. l .</del>	٠,	۱.	1-	Ļ	<del>  _  </del>	<u> </u>	_	<del>_</del>	<del>-</del>	<u>.</u> l	<del>. ا ـ</del>	1				BB					-	<del> </del>	100	╁╾	حما	چچا	1==	خجا	100	100	<del> </del>	Ł
AWI ATR Audible Msg Wtg	104		ပြု	_	Ç			10	10	<u> </u>	С	4										4	9	4	9	9 9			<u>.</u>	14	C	-															
AWI ATR Visual Msg Wtg	106		이	L	C		_	ļ	L	Ш		_	-14	<u>; [ '</u>	9	44	40	10	U	ट	C	-		-	_	-	С	드	L	↓														CC			
fWI Act (Audible) Expand	187	BB					_	L_		Ш		_	_	_		4	<b>_</b>	↓	<u> </u>	$\vdash$	_			_		_	_	ш		<b>↓</b>		_											ВВ			BB	_
AWI Act (Visual) Expand	190	BB							L				┸	_			丄	<u> </u>		$\sqcup$	_						_	ш		1							В		В		В						E
fWI Activation (Audible)	185							BB	BB	88	BB 8	B B										BB	BB	BB ]E	3B   B	B BB	BB	В	В	В	В	В											BB		_	BB	
MWI Activation (Visual)	189			BB		BB		<u> </u>		L		止	$\perp$	3   1	ΒE	B	В	8	В	В	В						BB	В		<u> </u>																BB	
AWI Audible/Visual	104	С	ပ		C	C		Ι											L.,							$\perp$	L.,	Ш	L	<u>L</u>					С	o			C					C			
/lake Busy Key	179	BB	BB	BB	BB	BB	BB	BB	88	BB	вв в	BB	3 BI	DΒ	D Bi	BC	BC	BD	BD	BD	BD I	BD	BD	BD E	3D B	D   BD	88	BB	BB	BB	BB	BB	В	BB	BB	BB	BB	BB	BB	BB	BB	BB	BB	BB	88	BB	E
AcCulton Loop (LS2)	R11					1	1		Г			$\neg$	Т	Т	7		T	T	1	П		$\neg$					Т			Г				AA [	A	AA	AA	AA	AA	AA	AA	AA	. AA	AA	AA	AΑ	7
legabit ISDN DSL Svc	R12	Т					Г	П				Т	Т	Т	Т	7	Т	Т		П	-1	Т	$\neg \neg$	$\neg$	7	$\top$	Т			I				Ā	٧	A	A	Α	A	A	A	A	A	Α	A	Α	1
MegaBit Service	H13	1				1			┌╴			Т	T	Т		1			Г	П					Т	$\top$	Т					$\neg$		AA	ĀΑ	AA	AA	AA	AA	AA	A	AA	AA	AA	AA	AA	7
fenu Acs Trans - Gateway	152			_	T	1	1	Т				┪-	1	7		$\neg$	1	$\top$								$\neg$	1			Т										1	T	Т	Т	В			Τ
denu Server-Pkt	R75	1		<b>-</b>	1	1	1	1				_	1	7	1	╅	1	1	1					_	$\neg r$		1	$\Box$	DD	DD	DD	DD	DD				T-	П	1			1	1	$\top$	Г		T
lessage Desk (SMDI)	181	88	ВВ	BB	ВВ	BB	ВВ	ВВ	вв	ВВ	BB B	ВВ	3 <b>B</b> i	вВ	8 B	3 BE	BE	ВВ	BB	ВВ	BB I	вв	BB	BB E	3B B	B BE	88			В	В	В	В	BB	BB	ВВ	BB	BB	BB	BB	BB	BB	ВВ	BB	88	BB	Ti
Modern Aggregation Svc	R14	1		-		+		1	-			-	Ť	十	-	Ŧ	+	+-	<del> </del>				_		_		1	<u> </u>	_	<del>                                     </del>	$\vdash$	_							A					A			1/
Aonthly Call Detail Rec	R48	1	_	┼-	$\vdash$	+	t	†	<del>                                     </del>	_	_	_	7	1	BE	t F	T B	+	-	lв	B	_	$\neg$		$\dashv$	+	1			+-	$\vdash$	_		-		-	<del>                                     </del>	+	Ť	+	+	+	+	+	1	<u> </u>	Ť
Apix-T1-1.544Mbps-Line	R49	<del>                                     </del>	_	├-	-	+	╂	╅──	┼		-+	+	+	+	<del>-   :</del>	4-	+-	+-	1	╅	Ť			$\dashv$	-	+	+	1	_	+	$\vdash$			BR	BB	BB	RR	BB	TRR	BB	1BB	TRB	BB	BB	BB	BB	t
Apix-T1-1.544Mbps-Trunk	R50	<del>!</del> —	┢	├	⊢	+	╂┈	+	╀	-	-+	+	╅	+	+	╅	+-	+	$\vdash$	╁		a	BD	R I	3D B	В	1-	1	1	1-	$\vdash$		-		-	<del></del>	155	٣	+==	٣	+==	+55	+	+55	1-	۳-	ť
Issa Desk Expand (SMDIE)	183	ВB	BB.	-	100	100	┢	+-	┼-	$\vdash$	-+	+-	- Ri	a la	e le	BE	t las	BÉ	IRR.	вв	RR	<del>-  </del>	25	<del>-  </del>	<del>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</del>	۲-	+	<del>                                     </del>	_	+-	$\vdash$		В	AR	BB	RR	+-	ĦR.	- R	BB	IRR.	ta-	BB	В	B	BB	ti
fult Ntwk Addr/Port-Pkt	R76	100	100	DD.	В	100	-	В	66	88	BB 8	ᇚ		۳	<u> </u>	7	150	100	100	1		20	<u> </u>		in la	D BC	┪-	$\vdash$	-	+-	$\vdash\vdash$		_				В		В					ե		B	۲ì
fultiline Hunt Group	107	OD.	00	00	100	BB	<del>6</del>	BB			BB E			ᆏ	<del>.    </del>	100	V or	Jan.	100	100						B BE		lee l	80	lan.	00	60												lea l			
lultiplexing-Digital	R86	BB																		BD					3B   B		100	the.			BB																
		00		RR	IRR	IRR					B B												BB		_			1	PD.	100	00	ᄧ	00	96	DD	00	100	ᄪ	100	100	100	100	ᄪ	100	100	100	#
ame of Calling Party	119	-	C	<u> </u>	<b>I</b>	1_	C			ပ		<u> </u>								C					<u>c</u>	<u> </u>	4	-	-	<del>  -</del>				اج	_	_	1=	<del> </del>	1_	+==	4=	+==	1==	<del> </del>	<del> </del>	<del>    -</del>	4.
etwork Reconfiguration	192	BB	BB	BB	1BB	BB	В	IB.	В	В	в 18	В	18	րեթ	D B	)  B[	BE	IBD	IRD	BD	RD	RB	BB	вв І	3B  B	в вв	BB	ļ	88	IRR	BB	RR	RR	RR	В	В	BB	BB		ВВ		TRR	1 <sub>RR</sub>	В	ᄩ	IRR.	4
rder Entry Service	R93	1_	<u> </u>	ـــ	L.	4_	<u> </u>		<u> </u>	ш				┸	ᆚ		4	_	1_	┰	_1			1			┺	1	<u> </u>	↓	igspace			لـــا			<del> </del>	В		В		<del>_</del> _	4_	<del></del>	<del></del>	<del></del>	1
utgoing Cls Barred-Pkt	R77	<b>_</b>	$\Box$								Ĺ			$\perp$	L_		$\bot$			╙						O BC				<b>_</b>	╙			_	_									В			4
erm Virtual Ckt-Pkt	R78											$\perp$		$\perp$			$\perp$					BD ]	BD ]	BD E	3D   B	D BC	<u> </u>							в]	В	В	В	В	В	В	В	В	В	В	<u>B</u>	В	E
			L	Ι.								$\mathbf{I}$	$\mathbf{I}$	$oldsymbol{T}$	$\mathbf{I}$	I	$\perp$									$\Box$																	上	$oldsymbol{oldsymbol{oldsymbol{oldsymbol{\Box}}}$			1
/30/2000 Update (Page 3)		_	_	<del></del>	_	_	·	-	_	_	_	_	_	_	_	_	7	_	_	1 1	_	_	-			_		_	_	_		_		_	_		·	-	_	_	_	_		$\overline{}$	1		1

Service Name (Generic)		L		erite			_			Atla								Sout							YNE)			Pac				WBT										MES.						
some Region Specific)	Pg	IL .	IN	М	ОН	W	DE	DC	ΜD	NJ	PAIV	ΑW	/V /	ΨĮ	L (	iA [	ΥL	A N	IS IN	IC S	CT	M	E M	A N	H N	(RI	VT	CA	NV	AR	KS	MO	ŌΚ	TΧ	ΑZ	co	ID	IA	MN	MT	NE	NM	ND	OR	SD	UT	WA	WY
Preselect for Data Svcs	154						В	В	В	В	8 8	В	E	3D (	3D	3D	3D E	D B	DE	3D E	D B	D BI	) BI	D B	D BC	BD	BD	BB		CC	CC	CC	CC	С						П							$\overline{}$	
Privacy +	R53											1	1			$\neg$	_		T	$\neg$		<b>T</b>	$\top$			$\top$									С	С	С	С	С	С	C	C	C	С	С	C	С	C
Priority Service Install	R52					П	П					$\top$		D	3D E	3D E	3D E	D B	DE	30 E	DB	D	$\top$	1	┱	$\top$							$\neg$							П			$\Box$		П	П	ī —	$\overline{}$
Redirecting Name Deliv	R54											$\top$	1		$\neg$	ヿ	丁				$\neg$	1	丁	$\top$	1	1			П				$\neg \neg$	-						$\Box$				П	$\Box$	$\Box$	В	$\overline{}$
Redirecting Num Deliv	R55											十	7	┑	T	$\neg$	7	$\top$	$\neg$	$\neg \tau$		1	_	┪	_	1	T								С	C	С	С	C	िटो	C	C	ि	C	C	C	$\overline{\mathbf{c}}$	C
	R104											$\top$									A A		$\top$	$\top$	丁		1	1					$\neg$		$\Box$							abla				П	$\bigcap$	Г
Remote Call Forwarding	R56		_				С	С	С	С	С	c i	c T	टो	c	C	ट	ट	ट	ट	C	c c	7	ा र	ाट	ि	C						$\neg$		В	В	В	В	В	В	В	В	В	В	В	В	В	В
Rev Bilg On Ckt Acc	121											_					В		T			В	T		Т	Т	$I^{-}$	П												$\Box$						$\Box$	í	Г
Rev Chg Req Optn-Pkt	R79									-		T		$\neg$			$\neg$	$\neg$	T	$\neg$	T	BI	) BI	D BI	D BE	BD	BD		П						В	В	В	В	В	В	В	В	В	В	В	В	В	В
	155	BB	BB	вв	ВВ	ΒB	8	B	BB	ВВ	вв в	ВВ	ВЕ	3D I	30 E	3D (	3D E	3D B	DE	3D E	ID B	D BI	) BI	D BI	D BE	BD	BD	88		BB	BB	BB	8B	В	В	В	В	В	В	В	В	В	В	В	В	В	В	В
Route Diversity	169	вв	BB	BB	BB	ВВ	_		<b></b>			1									DB									BB	BB	88	BB	BB						$\Box$	П	Г	Г	$\Box$	$\Box$	П	abla	
Secondary Ch Capability		BB					вв	В	В	ВВ	BB E	Ī									D B		в Ві	в в	BBE	1 BB	BB	88		ВВ	ВВ	88	вв	BB					BB	88	BB	BB	BB	ВВ	ВВ	BB	BB	BB
	122						Ĉ	C	C	C	С	टा									C		$\top$	T	1	1	Т	С									С							Ċ				
Selective Call Rejection	125	С	Ю		C	C	C	С	C	C	С	C	С	टा	C	С	टा	टा	cl	C	C	C	Т	Т	Т	T	Т	C	С	С	C	C	C	C	С	С	С	C	c	C	C	С	C	C	C	टा	C	C
Shared Speed Calling	128										T	T			丁	$\neg$	$\neg \top$	$\neg$	_	$\neg$		T	$\top$			T	П	С							С	С	С	С	C	C	ट	C	C	C	C	C	С	C
Single Num Acc-Mult Locn	130											Т									C		Т	T	$\top$	Т	T														$\Box$							σ.
Speed Catting	132	С	C		C	C	Ĉ	С	С	С	C	T	С	ट	С	С	c	С	С	С	C	C				; c	С	С		С	C	С	С	С	С	С	O	С	C	С	C	C	C	C	C	C	C	C
Surrogate Client Number	R60											Т	E	3B	3B	3B   I	3B [6	3B E	BE	3 E	3B B	В					$\top$																$\Box$					
Svc Code Denial Ln/Hunt	R58									П		Т		$\Box$	Т		$\neg$	Т	Т	Т	Т	Т	Т	Т	Т	Т		BB														$\Box$					$\subseteq$	Г
Switched 56 Kilobit Svc	R61						AA	AA	AA	AA	AA A	ĀΑ	A /	W	W/	W /	M /	MA	A A	W/	MA	A A	A A	A A	A A	N AA	Α																					$\Box$
andem Routing	134	88	BB	вв	BB	BB			В	В	В	B	ВЕ	3B	3B [i					3 E	ВВ	ВΑ	A A	A A	A A	\\AA	AA	AA	AA																			
hird Numb Bill Inhibitd	R63							Г				Т			D			D		$\Box$		П	Т							С	С	С	С	O								$\Box$	Г				$\equiv$	П
	136	88	BB	вв	BB	BB	₿	BB	ВВ	ВВ	BB E	B																	В															BB				
	R64						BB	BB	BB	BB	BB E	8 B						С			C																							BB				
	R66											$\Box$		В	В	В	В	В	В	В	В	ВВ	в В	в В	BBE	3 BB	BB										BB	BB	8B	BB				BB				
rans Imprv-Ckt Sw Svcs	R67					Г					$\Box$		П	$\Box$	П				П							$\mathbf{I}^{-}$									В	В				В	В	В	В	В	В	В	В	В
runk Side Access Facil	R15					П			П			Т					A		$\Box$		A .		${\mathbb T}$	$\perp$	$\perp$ L.		$oxed{\mathbb{L}}$																$\Box$					Г
Jnif 7D Acc Num Overlay	140											Т	T	3B	BB [I	3B [1	3B [	3B   E	8B E	3 €	BBB	ВВ	ВВ	ВВ	B   BE	3 BB	BB				Ι																Ĺ	
Jnif 7D Acc Num RCF	138						В				В	Т	T	Т		T	Т	П		$\neg$		Т	┰	Т	Т	Т	П	Г												П		$\Box$	$\Gamma$					
Jnif Acc Numb-Bus Lines	R68					П			Π	Π		Т	Т	В	В	BŢ	В	В	Т	$\neg$	В	В	Т			Т	$\Box$			Г														$\Box$			ī.—	⊏
	R89				Г				T			T	7	3D	BD	3D (	3D E	3D E	DE	3D E	BD B	D	$\Box$	$\Box$		Т	$\Box$																	$\Box$				
er Interty Subscr Lines	173	BD	BD	BD	BD	BD		1		$\Box$		7	7	П	_	_	Т	Т	╗	П.		A	A A	A	\A/	\ AA	1	ВВ	88		$\Gamma$				ट					П		$\Box$		C		$\Box$	С	Г
/ideo DT Messaging Port	R101				П	Г				В	E		7	Т		$\neg$	$\neg T$	Т		T			$\Box$	$oldsymbol{oldsymbol{oldsymbol{\Box}}}$	Т	T	Т	Г			П												Г					
	R16					Т		Г	Т	Α	1		1	$\neg$			$\neg$	$\neg$	$\neg$	$\neg$	Т	Т	$\top$	$\Box$	Т	T	T				П															$\Box$		Г
/ideo Dialtone Bdcst Svc	R100			T	$\Box$	Г			Г	B			7	7					$\neg$	一	丁	1	$\top$	7	T	T	Т	Г			1									П	Г	$\Box$	$\Box$		$\neg$		i	
	R102				1	1		1	T	В	E		7	7	$\neg$	$\neg$	_		$\neg$	$\neg$	$\neg$	$\top$	丁	1	┪	T	Т	T			1	Ш			П					П	П	$\sqcap$	Г		$\Box$	$\Box$	$\overline{}$	Г
	R90			t	t	T	Г		T	t		┪	1	_	┪			1	$\neg$ t	1	1		┪	┪	1	1	1	Г	П		T					C	C	С	С		C	С	$\vdash$	$\Box$	$\Box$	cl		Г
	141	С	С	1	C	c	1	t				$\top$	7	टो	टो	टो	टो	ट	ct	_	टो	C B	БΒ	D B	о в	BC	BD	C	С	С	Ċ	c	c	c	c								c	C	П		Ċ	C
		Ť	Ť	_	Ť	Ť	1	1	1	1			7	┪	Ť	-+	-+	-	_	_	Ť	Ť	1	7	1	+-	1	Ľ	1		Ť		$\vdash$		Ħ			Ť			Γ-	<u> </u>	1		П			Г
/30/2000 Update [Page 4]		1	$\vdash$	┼─	$\vdash$	t		T	T	<del>                                     </del>	1		7	7	_	_	_	-	$\neg$	一	$\top$	1	_	$\top$	1	_	1	t	П	<b>-</b>	1	$\vdash$				_							1	$\vdash$		$\Box$	i —	Г
		_	_	_	-	-	_		+	-	${} \rightarrow$		-	-				-	_	_			_		_				_	_	-		_			_	_											_

Page numbers are based on 7/31/2000 release of the ONA Services User Guide.

Page numbers preceded by R are in Appendix 1 of the ONA Services User Guide, which contains Region Specific services.

Abbreviations: A=BSA

B=BSE C=CNS D=BSE/CNS

Under each state abbreviation, the left column contains FCC tariff information and the right column contains state tariff information.

Generic Name of Service	Generic Name of Service
Abbreviated Name	Full Name
555 Access Service	555 Access Service
ADSL Service	ADSL Service
AIN Alternate Routing	Advanced Intelligent Network Alternate Routing
AIN Single Number Access	AIN Single Number Access
AIN Term Data Co/Cus Rt	AIN Terminating Data Collection/Customized Routing
ATM Cell Relay Service	ATM Cell Relay Service
Acc To Clr Ch Transmissn	Access To Clear Channel Transmission
Access To OSS Info	Access To Operations Support Systems Information
Access to Cust Prem Anno	Access To Customer Premises Announcement
Access to Ordr Entry Sys	Access To Order Entry System
Alternate Routing	Alternate Routing
Answer Supv'n Line Side	Answer Supervision With A Line Side Interface
Asyn Tran Mode (ATM) Svc	Asynchronous Transfer Mode (ATM) Service
Auto Disaster Rec. DID	Automatic Disaster Recovery of DID
Automatic Callback	Automatic Callback
Automatic Protect Swtchg	Automatic Protection Switching
Automatic Recall	Automatic Recall
Bridging	Bridging
Bridging - Line	Bridging - Line
C1 TypA - Ckt Sw Line	Category 1, Type A - Circuit Switched Line BSA
C1 TypB - Ckt Sw Trunk	Category 1, Type B - Circuit Switched Trunk BSA
C2 TypA - X.25 Pkt Sw	Category 2, Type A - X.25 Packet Switched BSA
C2 TypB - X.75 Pkt Sw	Category 2, Type B - X.75 Packet Switched BSA
C3 TypA - Ded Metallic	Category 3, Type A - Dedicated Metallic BSA
C3 TypB - Ded Telegraph	Category 3, Type B - Dedicated Telegraph BSA
C3 TypC - Ded Voice Grd	Category 3, Type C - Dedicated Voice Grade BSA
C3 TypD - Ded Prgm Audio	Category 3, Type D - Dedicated Program Audio BSA
C3 TypE - Ded Video	Category 3, Type E - Dedicated Video BSA
C3 TypF - Ded < 64kbps	Category 3, Type F - Dedicated Digital (<64kbps)BSA
C3 TypG - Ded 1.544Mbps	Category 3, Type G - Dedicated High Capacity Digital (1.544 Mbps) BSA
C3 TypH - Ded >1.544Mbps	Category 3, Type H - Dedicated High Capacity Digital (>1.544 Mbps) BSA
C3 Typl - Ded Airt Trnsp	Category 3, Type I - Dedicated Alert Transport BSA
C3 TypJ - Ded Derived Ch	Category 3, Type J - Dedicated Derived Channel BSA
C3 TypK - Ded 64 kbps	Category 3, Type K - Dedicated Digital (64 kbps) BSA
C4 - Ded Ntwk Accss Link	Category 4 - Dedicated Network Access Link BSA
CF Mult Sim Call Intersw	Call Forwarding - Multiple Simultaneous Calls Interswitch
CF Var Act w/o Crtsy Cal	Call Forwarding - Variable - Activation Without Courtesy Call
CF Var Remote Act/Cntrol	Call Forwarding - Variable-Remote Activation/Control
CF Variable	Call Forwarding - Variable
CF With Variable Rings	Call Forwarding With Variable Rings
CFBL Interswitch	Call Forwarding - Busy Line Interswitch
CFBL Intraswitch	Call Forwarding - Busy Line Intraswitch
CFBL/DA Cust Act/Deact	Call Forwarding - Busy Line or Don't Answer - Customer
	Control of Activation/Deactivation
CFBL/DA Cust Chg Fwd No.	Call Forwarding - Busy Line or Don't Answer - Customer Control of Forward-To Number
CFDA After CW	Call Forwarding Don't Answer After Call Waiting
O. DATAMOR OTT	Can to waiting Don't Answer Arter Can waiting

Generic Name of Service Abbreviated Name	Generic Name of Service Full Name
CFDA Interswitch	Call Forwarding - Don't Answer Interswitch
CFDA Intraswitch	Call Forwarding - Don't Answer Intraswitch
CFDA To DID Intraswitch	Call Forwarding Don't Answer To DID Intraswitch
Call Denial - Line/Hunt	Call Denial On Line Or Hunt Group
Call Det Rcdg-NXX Screen	Call Detail Recording Reports - via NXX Screening
Call Det Recd'g Rpts Pkt	Call Detail Recording Reports (Packet)
Call Detail Recrd'g Rpts	Call Detail Recording Reports
Call Forwarding Originating	Call Forwarding Originating
Call Redirect Acceptance	Call Redirection Acceptance
Call Redirection Packet	Call Redirection - Packet
Call Transfer On DID	Call Transfer On DID
Call Waiting	Call Waiting
Call Waiting Cancel	Call Waiting - Cancel
Calling Name Delivery	Calling Name Delivery
Calling Name ID	Calling Name Identification
Clld DN Deliv via 900NXX	Called Directory Number Delivery via 900NXX
Clld DN Deliv via DID	Called Directory Number Delivery via DID
Clid/Clig Numbr Info-ANI	Called/Calling Number Information - ANI
Clig Bilg Num Deliv FG B	Calling Billing Number Delivery - FG B Protocol
Clig Bilg Num Deliv FG D	Calling Billing Number Delivery - FG D Protocol
Clig DN Deliv via BCLID	Calling Directory Number Delivery - via BCLID
Clig DN Deliv via ICLID	Calling Directory Number Delivery - via ICLID
Closed User Groups Pkt	Closed User Groups - Packet
Coin Ph-Post Dial DTMF	Coin Phone With Post Dialing Tone Capability
Computr Assist Call Xfer	Computer Assisted Call Transfer Acceptance
Compute Assist Dialing	Computer Assisted Dialing Acceptance
Conditioning	Conditioning
Coord Voice and Data	Coordinated Voice and Data Acceptance
Cust Originated Trace	Customer Originated Trace
Custom Service Areas	Custom Service Areas
Cut Off On Disconnect	Cut Off On Disconnect
Cxr Select On Rvrs Charg	Carrier Selection On Reverse Charge
DID Load Across WC	DID Load Across Wire Centers
DID Trunk Queuing	DID Trunk Queuing
DNAL Alarm Service	Ameritech - DNAL - Type F - Alarm Service
DNAL Amtch Reconfig Svcs	Ameritech - DNAL - Type E - Ameritech Reconfiguration Service
DNAL Amtch Sw-Cmputr Apl	Ameritech - DNAL - Type G - Ameritech Switch to Computer Applications (ASCAI)
DNAL Ckt Sw Fac Cntrl	Ameritech - DNAL - Type B - Circuit Switch Facility Control
DNAL SMDI	Ameritech - DNAL - Type C - Simplified Message Desk Interface (SMDI)
DNAL SMDI-E	Ameritech - DNAL - Type D - Simplified Message Desk Interface-Expanded (SMDI-E)
DNAL STP Access	Ameritech - DNAL - Type A - Signal Transfer Point Access (STP)
DS0-B Subrate Multiplxr	DS0-B Subrate Multiplexing Service
Data Over Voice (DOV)	Data Over Voice (DOV) Service
Data Over Voice (DOV)  Dataphone Slct A Station	Data Over Voice (DOV) Service  Dataphone Select A Station
Default Window Size-Pkt	Default Window Size - Packet
DOIGUIL WINDOW SIZE-FAL	Delault William Size - Packet

Generic Name of Service	Generic Name of Service
Abbreviated Name	Full Name
Derived Ch (Monitoring)	Derived Channels (Monitoring)
Dial Call Waiting	Dial Call Waiting
Dialed Num ID/INWATS-DID	Dialed Number Identification via INWATS to DID
Digital Data Service 2-Wire	Digital Data Service 2-Wire
Dir Call Pickup w/Barge	Directed Call Pickup With Barge-In
Dir Call Pickup w/oBarge	Directed Call Pickup Without Barge-In
Direct Call Packet	Direct Call - Packet
Direct Current (MT3)	Direct Current (MT3)
Dist Ring Term Screen	Distinctive Ringing - Terminating Screening
Distinctive Alert	Distinctive Alert
Distinctive Ringing	Distinctive Ringing
Extended Superframe Cond	Extended Superframe Conditioning
Fast Select Accept Pkt	Fast Select Acceptance - Packet
Fast Select Request Pkt	Fast Select Request - Packet
Faster Signaling On DID	Faster Signaling On DID
Flexible ANI	Flexible ANI Information Digits
Flow Contr Param Neg-Pkt	Flow Control Parameter Negotiation - Packet
Frame Relay Service	Frame Relay Service
High Cap Dig Handoff Svc	High Capacity Digital Hand-Off Service
Hot Line	Hot Line
Hunt Groups Packet	Hunt Groups - Packet
Inband Signaling	Inband Signaling
Incoming Cls Barred-Pkt	Incoming Calls Barred - Packet
Initial Address Message	Initial Address Message
Logical Chan Layout-Pkt	Logical Channel Layout - Packet
Logical Channels-Pkt	Logical Channels - Packet
MLHG Access to Each Port	Multiline Hunt Group - Individual Access To Each Port In Hunt
L	Group
MLHG CO Announcements	Multiline Hunt Group - C.O. Announcements
MLHG Overflow	Multiline Hunt Group - Overflow
MLHG UCD Line Hunting	Multiline Hunt Group - Uniform Call Distribution Line Hunting
MLHG UCD With Queuing	Multiline Hunt Group - UCD With Queuing
MWI - Packet Access	Message Waiting Indicator - Packet Access
MWI ATR Audible Msg Wtg	Message Waiting Indicator (MWI) - Ability To Receive Audible Message Waiting
MWI ATR Visual Msg Wtg	Message Waiting Message Waiting Indicator (MWI) - Ability To Receive Visual
WWW ATA VISUAL WISG VVIG	Message Waiting
MWI Act (Audible) Expand	Message Waiting Indicator Activation(Audible) - Expanded
MWI Act (Visual) Expand	Message Waiting Indicator Activation(Visual) - Expanded
MWI Activation (Audible)	Message Waiting Indicator - Activation (Audible)
MWI Activation (Visual)	Message Waiting Indicator - Activation (Visual)
MWI Audible/Visual	Message Waiting Indicator - Audible/Visual
Make Busy Key	Make Busy Key
McCulloh Loop (LS2)	McCulloh Loop (LS2)
Megabit ISDN DSL Svc	MegaBit ISDN Digital Subscriber Line Service
MegaBit Service	MegaBit Service
Menu Acs Trans - Gateway	Menu Access Translator - Gateway
Menu Server-Pkt	Menu Server - Packet
Message Desk (SMDI)	Message Desk (SMDI)
Modem Aggregation Svc	Modem Aggregation Service
Monthly Call Detail Rec	Monthly Call Detail Recording
	1

Generic Name of Service Abbreviated Name	Generic Name of Service Full Name
Mplx-T1-1.544Mbps-Line	Multiplexing - T1 Transport - 1.544 Mbps-Line Side
Mplx-T1-1.544Mbps-Trunk	Multiplexing - T1 Transport - 1.544 Mbps-Trunk Side
Mssg Desk Expand (SMDIE)	Message Desk (SMDI) - Expanded
Mult Ntwk Addr/Port-Pkt	Multiple Network Address/Port - Packet
Multiline Hunt Group	Multiline Hunt Group
Multiplexing-Digital	Multiplexing - Digital
Name of Calling Party	Delivery of Calling Party Name
Network Reconfiguration	Network Reconfiguration
Order Entry Service	Order Entry Service
Outgoing Cls Barred-Pkt	Outgoing Calls Barred - Packet
Perm Virtual Ckt-Pkt	Permanent Virtual Circuit - Packet
Preselect for Data Svcs	Preselection for Data Services
Privacy +	Privacy + (Plus)
Redirecting Name Deliv	Redirecting Name Delivery
Redirecting Num Deliv	Redirecting Number Delivery
Priority Service Install	Priority Installation Service
Remote Access Service	Remote Access Service
Remote Call Forwarding	Remote Call Forwarding
Rev Blig On Ckt Acc	Reverse Billing On Circuit Switched Access
Rev Chg Req Optn-Pkt	Reverse Charge Request Option (Packet)
Reverse Chg Accept Pkt	Reverse Change Acceptance - Packet
Route Diversity	Route Diversity
Secondary Ch Capability	Secondary Channel Capability
Selective Call Forward'g	Selective Call Forwarding
Selective Call Rejection	Selective Call Rejection
Shared Speed Calling	Shared Speed Calling
Single Num Acc-Mult Locn	Single Number Access for Multiple Locations
Speed Calling	Speed Calling
Surrogate Client Number	Surrogate Client Number
Svc Code Denial Ln/Hunt	Service Code Denial On Line Or Hunt Group
Switched 56 Kilobit Svc	Switched 56 Kilobit Service
Tandem Routing	Tandem Routing
Third Numb Bill Inhibitd	Third Number Billing Inhibited
Three Way Call Transfer	Three Way Call Transfer
Three Way Calling	Three Way Calling
Traffic Data Reports	Traffic Data Reports
Trans Imprv-Ckt Sw Svcs	Transmission Improvement for Circuit Switched Services
Trunk Side Access Facil	Trunk Side Access Facility
Unif 7D Acc Num Overlay	Uniform 7 Digit Access Number via Overlay Networking
Unif 7D Acc Num RCF	Uniform 7 Digit Access Number - Remote Call Forwarding
Unif Acc Numb-Bus Lines	Uniform Access Numbers for Business Lines
User Initd Diagnostics	User Initiated Diagnostics
Ver Intgrty Subscr Lines	Verify Integrity of Subscriber Lines
Video DT Messaging Port	Video Dialtone Messaging Port
Video Di Messaging Fort  Video Dialtone Access Lk	Video Dialtone Access Link
Video Dialtone Bdcst Svc	Video Dialtone Access Link  Video Dialtone Broadcast Service
Video Dialtone Narrowcas	· · · · · · · · · · · · · · · · · · ·
Versanet	Video Dialtone Narrowcast Service Versanet
Warm Line	Warm Line
VY CITILLINE	Waiti Lile

9/30/00

## PAPER ATTACHMENT TWO (P2)

## **BELL OPERATING COMPANIES**

# Service Descriptions ONA Services User Guide

July 31, 2000

**ONA Services** 

Names, Descriptions, Cross References

#### **FOREWORD**

Attached is the Services Descriptions section of the ONA Services User Guide, an update of information that was previously issued on January 31, 2000.

The Services Descriptions section of the ONA Services User Guide represents an agreement on the part of the BoCs for uniform names and technical descriptions of the Basic Serving Arrangements (BSAs), Basic Service Elements (BSEs) and Complementary Network Services (CNSs) that relate to the ESP requests included in BOC ONA Special Report Number 1, Issue 2 (October 1987). That Special Report is a compilation of the 118 requests received by all the BOCs during the input process for ESP requests prior to filing of the 2/1/88 ONA Plans. Some items, marked with an asterisk (\*) in their titles, have been deleted after the last issue of the report based on the availability of updated information indicating that they cannot be offered. For each service listed, a table is provided that gives an indication of which BOCs plan to offer the service, the individual BOC's product name, and whether the BOC classifies the service as a BSA, BSE or CNS.

The BSAs, which respond to the 118 ESP requests for ONA services, are listed in the following four categories of Basic Serving Arrangements:

Circuit Switched Serving Arrangements

A circuit switched basic serving arrangement (BSA) provides an enhanced service provider (ESP) with a connection to the circuit switched network.

Packet Switched Serving Arrangements

A packet switched BSA provides an ESP with a connection to the packet switched network.

Dedicated Serving Arrangements

A dedicated BSA provides an ESP with a dedicated point-to-point connection through the network.

• Dedicated Network Access Link Serving Arrangements

A dedicated network access link (DNAL) BSA provides a dedicated data channel between the ESP's termination and a designated central office which contains the specific features required by the ESP. The DNAL is used to transmit control information from the ESP to the network or to deliver information from the network to the ESP.

Following the BSAs are the BSEs and CNSs, which are listed in alphabetical order in the above four BSA categories. These BSEs and CNSs respond to the 118 ESP requests for ONA services that were made to all BOCs. A description of each BSE or CNS is provided, which includes a brief technical description and a table listing the product name for each company that offers the service.

Appendix 1 contains a set of descriptions of ONA services that are offered by one or more BOC in response to requests received independent of the 118 ESP requests received by all BOCs. Included is a technical description and a table with the product name for each company that offers the service.

Appendix 2 contains a list of BOC contacts.

Appendix 3 contains the BSA Matrix, a report that shows the relationship between the BSAs and the BSEs included in the ONA Services User Guide. Included is a table showing the generic name for each BSA, and the specific name used by each company offering the BSA. Also included is a set of tables, one for each BSA, listing which BSEs are associated with the BSA for each company. These matrices only include generic BSAs and BSEs, and do not include the CNSs or any region specific services.

This report does not supersede any information provided in the BOC ONA plans and amendments. All capabilities described are not available in all switching or transmission systems. Generic descriptions of BSAs do not imply that applicable generic functions and capabilities are available or compatible with all types of BSAs. In addition, generic descriptions are intended for informational purposes and their existence does not imply that specific products and/or services are necessarily tariffed and/or available in any or all state/ federal jurisdictions within a particular company's service area. The BSAs, BSEs and CNSs identified in this report cannot be ordered until appropriate tariffs are effective. Some ONA services may not be tariffed in all areas. The reader should refer to the individual BOC ONA plans and amendments or the BOC contacts listed in Appendix 2 to this report for information on BOC availability and deployment plans for the technical capabilities described in this report.

References to switching system generics that have not yet been released by the vendors are based on our current information about which features are planned for inclusion in those generic releases. If the vendors change the availability of any features for future generic releases that are referenced in this document, the availability of some services may be affected.

Technical references that are publicly available are listed for each service, where available. Ordering information for each of the technical references may be found in the *Telcordia Technologies Catalog of Technical Information* (including ordering information for reference documents published by individual regional companies). To order, call 1-800-521-2673 toll free from anywhere in the USA; call (732) 699-5800 for foreign calls; fax (732) 336-2559.

Recently, various BOCs have completed, or are in the process of completing, corporate mergers. For this document, the old company names will continue to be used (for example, Bell Atlantic and NYNEX are listed separately; Southwestern Bell, Pacific Bell, and Ameritech are listed separately). The U S WEST name, and USW abbreviation, will continue to be used for this update, even though U S WEST will be changing its name to Qwest Corporation.

Questions on this report should be directed to the BOC contacts listed in Appendix 2 to this report.

BSA	Descriptions	7
1.	Category 1 - Circuit Switched BSA	8
	1.1 Category 1, Type A - Circuit Switched Line BSA (1039)	
	1.2 Category 1, Type B - Circuit Switched Trunk BSA (1040)	
2.	Category 2 - Packet Switched Basic Serving Arrangement	
	2.1 Category 2, Type A - X.25 Packet Switched BSA (1001)	13
	2.2 Category 2, Type B - X.75 Packet Switched BSA (1002)	16
2	Category 3 - Dedicated Basic Serving Arrangement	10
Э.	3.1 Category 3, Type A - Dedicated Metallic BSA (1015)	
	3.2 Category 3, Type B - Dedicated Telegraph BSA (1016)	
	3.3 Category 3, Type C - Dedicated Voice Grade BSA (1017)	
	3.4 Category 3, Type D - Dedicated Program Audio BSA (1018)	
	3.5 Category 3, Type E - Dedicated Video BSA (1019)	
	3.6 Category 3, Type F - Dedicated Digital (< 64 kbps) BSA (1020)	
	3.7 Category 3, Type G - Dedicated High Capacity Digital (1.544 Mbps) BSA (1021)	
	3.8 Category 3, Type H - Dedicated High Capacity Digital (>1.544 Mbps) BSA (1022)	
	3.9 Category 3, Type I - Dedicated Alert Transport BSA (1023)	
	3.10 Category 3, Type J - Dedicated Derived Channel BSA (1024)	
	3.11 Category 3, Type K - Dedicated Digital (64 Kbps) BSA (1037)	39
4.	Category 4 - Dedicated Network Access Link BSA (1025)	41
BSE	and CNS Descriptions	43
7	Technical Descriptions for Circuit Switched Serving Arrangements	11
1.	Alternate Routing (1041)	
	Answer Supervision With A Line Side Interface (1042)	<del>77</del>
	Automatic Callback (1043)	40 91
	Automatic Recall (1044)	
	Call Detail Recording Reports (1045)	
	Call Forwarding - Busy Line Intraswitch (1046)	
	Call Forwarding - Busy Line Interswitch (1047)	
	Call Forwarding - Busy Line or Don't Answer - Customer Control of Activation/Deactivatio (1048)	
	Call Forwarding - Busy Line or Don't Answer - Customer Control of Forward-To Number	
	(1049)	61
	Call Forwarding Don't Answer After Call Waiting (CFDA After CW) (1093)	63
	Call Forwarding - Don't Answer Intraswitch (1050)	
	Call Forwarding - Don't Answer Interswitch (1051)	67
	Call Forwarding - Multiple Simultaneous Calls Interswitch (1052)	
	Call Forwarding - Variable (1053)	70
	Call Forwarding - Variable - Activation Without Courtesy Call (1054)	
	Call Forwarding - Variable - Remote Activation/Control (1055)	73
	Call Forwarding With Variable Rings (1102)	75
	Call Waiting - Cancel (1056)	76
	Called Directory Number Delivery via DID (1057)	78
	Called Directory Number Delivery via ISDN Q.931 *	
	Called Directory Number Delivery via 900NXX (1059)	
	Calling Billing Number Delivery - FG B Protocol (1060)	
	Calling Billing Number Delivery - FG D Protocol (1061)	
	Calling Billing Number Delivery - via ISDN Q.931 Protocol *	
	Calling Directory Number Delivery - via ICLID (1064)	
	Carrier Selection On Reverse Charge (1065)	
		177

	Coin Phone With Post Dialing Tone Capability (1062)	91
	Customer Originated Trace (1066)	92
	Cut Off On Disconnect (1095)	94
	DID Trunk Queuing (1067)	95
	Distinctive Ringing (1068)	96
	Distinctive Ringing - Terminating Screening (1069)	<b>9</b> 9
	Faster Signaling On DID (1094)	
	Flexible ANI Information Digits (1058)	
	Hot Line (1070)	
	Message Waiting Indicator (MWI) - Ability To Receive Audible Message Waiting (1073)	104
	Message Waiting Indicator (MWI) - Ability to Receive Visual Message Waiting(1074)	
	Multiline Hunt Group (1077)	
	Multiline Hunt Group - C. O. Announcements (1078)	
	Multiline Hunt Group - Individual Access To Each Port In Hunt Group (1079)	
	Multiline Hunt Group - Overflow (1080)	
	Multiline Hunt Group - Uniform Call Distribution Line Hunting (1081)	
	Multiline Hunt Group - UCD With Queuing (1082)	
	Name of Calling Party (1097)	
	Reverse Billing On Circuit Switched Access (1083)	121
	Selective Call Forwarding (1084)	
	Selective Call Rejection (1085)	
	Shared Speed Calling (1086)	
	Single Number Access For Multiple Locations (1098)	
	Speed Calling (1087)	
	Tandem Routing (1088)	
	Three Way Call Transfer (1089)	
	Uniform 7 Digit Access Number - Remote Call Forwarding (1090)	
	Uniform 7 Digit Access Number via Overlay Networking (1091)	
	Warm Line (1092)	
	• •	
2.	Technical Descriptions for Packet Switched Serving Arrangements	
	Call Detail Recording Reports (Packet) (1003)	
	Call Redirection - Packet (1004)	
	Closed User Groups - Packet (1005)	
	Direct Call - Packet (1006)	
	Fast Select Acceptance - Packet (1007)	
	Fast Select Request - Packet (1008)	
	Hunt Groups - Packet (1009)	
	Menu Access Translator - Gateway (1010)	
	Message Waiting Indicator - Packet Access (1011)	
	Preselection for Data Services (1013)	
	Reverse Charge Acceptance - Packet (1014)	155
3.	Technical Descriptions for Dedicated Access Arrangements	. 156
	Access To Clear Channel Transmission (1026)	157
	Access To Operations Support Systems Information (1027)	
	Automatic Protection Switching (1028)	
	Bridging (1029)	
	Conditioning (1030)	
	Data Over Voice (DOV) Service (1031)	
	Derived Channels (Monitoring) (1032)	
	Extended Superframe Conditioning (1033)	. 168
	Route Diversity (1096)	
	Secondary Channel Capability (1034)	170
	Statistical Multiplexer (1035)	179
	Verify Integrity of Subscriber Lines (1036)	173
4.	Technical Descriptions for Dedicated Network Access Link Serving Arrangements	. 175

Automatic Circuit and Trunk Monitoring Service *	176
Calling Directory Number Delivery - via BCLID (1063)	177
Make Busy Key (1071)	179
Message Desk (SMDI) (1072)	
Message Desk (SMDI) - Expanded (1099)	
Message Waiting Indicator - Activation (Audible) (1075)	185
Message Waiting Indicator Activation (Audible) - Expanded (1100)	187
Message Waiting Indicator - Activation (Visual) (1076)	189
Message Waiting Indicator Activation (Visual) - Expanded (1101)	190
Network Reconfiguration (1038)	192

(blank page)

## **BSA Descriptions**

BSAs have been arranged into four categories:

- 1. Circuit Switched
- 2. Packet Switched
- 3. Dedicated
- 4. Dedicated Network Access Link

Each category may have several types. Following are descriptions of the BSA categories and the associated BSA types.

#### 1. Category 1 - Circuit Switched BSA

A circuit switched basic serving arrangement (BSA) provides an enhanced service provider (ESP) with a connection to the circuit switched network. This BSA is capable of supporting analog signals of approximately 300 to 3000 Hz or a circuit switched digital interface with a call type of digital encoded voice, 3.1 kHz or 7 kHz audio, 56 kbps or 64 kbps data transmission. This BSA may also transmit voice grade analog data. The transmission interface may be 2-wire or 4-wire, or derived from a variety of multiplexing alternatives (for example, Digital Signal (DS) level 0 from DS level 1, or DS1 from DS3).

This BSA may support one-way or two-way directionality. Calls are set up and taken down on a call by call basis. The transport/usage element could be intra-office or inter-office.

Route diversity may be available with this serving arrangement.

#### 1.1 Category 1, Type A - Circuit Switched Line BSA (1039)

#### Service Description

A circuit switched line BSA provides an ESP with a line side connection to the circuit switched network.

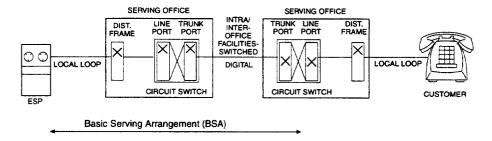
This line side connection could include alternative types of network connection, address and supervisory in-band or out-of-band signaling. Examples of network connections are standard telephone line or a line side type connection (e.g., PBX service). This BSA may support one-way or two-way directionality on a 2-wire or 4-wire transmission interface.

Calls are set up and taken down on a call by call basis. The calling scope may include, for example, an entire Local Access and Transport Area (LATA), a market area or be limited to all or part of a metropolitan area. Directory numbers are assigned from the North American Numbering Plan without any special routing or other use of the number.

Generic Name of BSA	Regional Company BSA Name
Category 1, Type A - Circuit Switched Line BSA*	AM - Circuit Switched Line
	BA - Business Individual Line
	BA - Line Side BSA
	BS - Voice Grade - Line - Circuit Switched
	NX - Circuit Switched - Line
	PB - Access Line Arrangement
	SWB - Circuit Switched - Line Side Basic Serving Arrangement (BSA-A)
	USW - Voice Grade - Line - Circuit Switched

Based on the Federal Communications Commission (FCC) CC Docket 89-79 Order dated July 11, 1991, there will be a new line side BSA on FCC approval of tariffs submitted November 1, 1991.

#### Voice Grade - Line - Circuit Switched - BSA



#### Alternatives

An alternative is an item that must be selected for the BSA to be technically meaningful. Alternative items may be available from some or all of the Local Exchange Carriers (LECs). Refer to the individual LEC tariff reference diskette for the reference information where LEC defined alternatives may be found. Examples of potential alternatives may be: Service Code Denial and Uniform Call Distribution.

#### Signaling

Signaling arrangements extend line circuit or signaling circuit alerting information on metallic or fiber facilities from one customer premises location to another customer premises location. The signaling arrangement can be terminated on trunk-like or line side interfaces of the LEC switch. Examples of address signaling on an analog interface are dial pulse or dual tone multifrequency (DTMF) with supervisory signaling of loop start or ground start. A digital interface will offer address and supervisory signaling via an out-of-band standardized protocol.

#### **Transmission**

The subject of transmission covers a broad range of performance considerations related to the physical facilities that compose network architecture. Transmission parameters are designed to provide objective transmission performance characteristics, as perceived by the end user and LEC, between the points of termination. Transmission parameters are defined for each Network Interface (see below) supporting this BSA. These parameters are defined in the reference documentation.

#### Network Interfaces

The electrical and physical interface with the LEC is described by a Network Channel Interface (NCI) code for each end user termination and each service provider termination. NCI codes are provided to aid the user in understanding the relationship of the network interface to the electrical or optical characteristics of the interface. NCI codes have four basic components: (1) number of conductors (wire or fibers), (2) protocol code, (3) nominal reference impedance code, and (4) any applicable protocol options.

#### References

- GR-334 Switched Access Service: Transmission Parameter Limits and Interface Combinations, Issue 1, June 1994
- U S WEST's document 77316 Pacific Northwest Bell's Addendum to Voice Grade Switched Access Service TR-NPL-000334, April 1986.

#### 1.2 Category 1, Type B - Circuit Switched Trunk BSA (1040)

#### Service Description

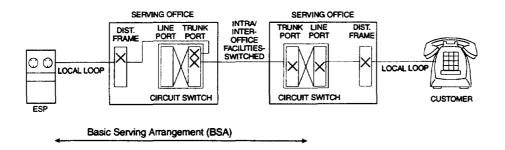
A circuit switched trunk BSA provides an enhanced service provider (ESP) with a trunk side connection to the circuit switched network.

Various types of network connections, address signaling and supervisory signaling are available. An example of network connections to the serving office may be direct trunk or a tandem connection. Calls are set up and taken down on a call-by-call basis. Different access arrangements, based on the North American Numbering Plan, are available from the Local Exchange Carriers (LEC). This BSA may support one-way or two-way directionality.

Generic Name of BSA	Regional Company BSA Name
Category 1, Type B - Circuit Switched Trunk BSA	AM - Circuit Switched Trunk
	BA - Trunkside BSA - 950 Option
	BA - Trunkside BSA - 10XXX Option
	BS - Circuit Switched Trunk - Voice Grade
	NX - Circuit Switched Trunk
	PB - Access Trunk Arrangement (950)
	PB - Access Trunk Arrangement (10XXX)
	SWB - Circuit Switched - Trunk Side Alternative B Basic Serving Arrangement (BSA-B)
	SWB - Circuit Switched - Trunk Side Alternative D Basic Serving Arrangement (BSA-D)
	USW - Voice Grade - Trunk - Circuit Switched

#### Alternatives

Voice Grade - Trunk - Circuit Switched - BSA



An alternative is an item that must be selected for the BSA to be technically meaningful. Alternative items may be available from some or all of the LECs. Refer to the individual LEC tariff reference diskette for the reference information where LEC defined alternatives may be found. Examples of potential alternatives may be: Service Class Routing, Dial Pulse Address Signaling, and Cut Through.

#### Signaling

Signaling arrangements extend trunk circuit or signaling circuit alerting information on metallic or fiber facilities from one customer premises location to another customer premises location. These signals are the means by which the end user initiates a request for service, holds a connection or releases a connection. The signaling arrangements can be terminated on line-like or trunk side interfaces of the LEC switch. Examples of point-of-termination supervisory signaling arrangements that may be ordered are Multi-Frequency (in-band), Signaling System 7 (SS7) (out of band), reverse battery and E&M.

#### **Transmission**

The subject of transmission covers a broad range of performance considerations related to the physical facilities that compose network architecture. Transmission parameters are designed to provide objective transmission performance characteristics, as perceived by the end user and LEC, between the points of termination. Transmission parameters are defined for each Network Interface (see below) supporting this BSA. These parameters are defined in the reference documentation.

#### Network Interfaces

The electrical and physical interface with the LEC is described by a Network Channel Interface (NCI) code for each end user termination and each service provider termination. NCI codes are provided to aid the user in understanding the relationship of the network interface to the electrical or optical characteristics of the interface. NCI codes have four basic components: (1) number of conductors (wire or fibers), (2) protocol code, (3) nominal reference impedance code, and (4) any applicable protocol options.

#### References

- GR-334 Switched Access Service: Transmission Parameter Limits and Interface Combinations, Issue 1, June
   1994
- TR-TSY-000698 Feature Group B FSD 20-24-0300, Issue 1, June 1989, Rev. 1, July 1990
- LSSGR FR-64 (formerly FR-NWT-000064), GR-690, FSD 20-24-0000, Exchange Access Interconnection, Issue
   1, March 1991, Issue 2, September 1995, Revision 01, October 1996
- TR-NPL-000258 Compatibility Information for Feature Group D Switched Access Service, Issue 1, October 1985.
- SR-NPL-001321 Connection Setup Time for Feature Group D and Terminating Feature Group B, Special Report, Issue 1, February 1989.
- Ameritech reference: AM TR-TMO-000094 Switched Access Service Feature Group D, August 1992. (Written
  as a companion document to TR-NWT-000334, Switched Access Service: Transmission Parameter Limits and
  Interface Combinations.)

#### References for SS7

GR-905 Common Channel Signaling Network Interface Specification (CCSNIS) Supporting Network
Interconnection, Message Transfer Part (MTP), and ISDN User Part (ISDNUP), Issue 2, Rev01 - December
1997, Rev02 - December 1998 (replaces TR-TSV-000905), Issue 3 - December 1999